

Title (en)  
APPARATUS AND METHOD FOR DYNAMIC COMMUNICATION RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATIONS IN A WIRELESS COMMUNICATION SYSTEM

Title (de)  
VORRICHTUNG UND VERFAHREN FÜR DYNAMISCHE KOMMUNIKATIONSRESSOURCENZUWEISUNG FÜR GERÄT-ZU-GERÄT-KOMMUNIKATIONEN IN EINEM DRAHTLOSEN KOMMUNIKATIONSSYSTEM

Title (fr)  
APPAREIL ET PROCÉDÉ DESTINÉS À UNE ALLOCATION DYNAMIQUE DE RESSOURCES DE COMMUNICATION POUR DES COMMUNICATIONS DE DISPOSITIF À DISPOSITIF DANS UN SYSTÈME DE COMMUNICATION SANS FIL

Publication  
**EP 2342932 B1 20230412 (EN)**

Application  
**EP 09823151 A 20091029**

Priority  
• IB 2009007270 W 20091029  
• US 10944208 P 20081029

Abstract (en)  
[origin: WO2010049801A1] An apparatus, system and method to dynamically manage an allocation of communication resources for direct device-to-device communications between a plurality of wireless communication devices in a wireless communication system. In one embodiment, the apparatus (410) includes a communication resource allocator (420) configured to: (1) select a master communication device of a plurality of wireless communication devices that form a device-to-device group, (2) provide an allocation of communication resources for device-to-device group that facilitate direct device-to-device communications therebetween. The apparatus (410) also includes a message generator (430) configured to assemble messages that include the allocation of the communication resources.

IPC 8 full level  
**H04W 72/04** (2009.01); **H04W 16/10** (2009.01); **H04W 56/00** (2009.01); **H04W 72/12** (2009.01); **H04W 84/20** (2009.01); **H04W 88/08** (2009.01); **H04W 76/00** (2009.01)

CPC (source: EP KR US)  
**H04W 16/10** (2013.01 - KR); **H04W 52/343** (2013.01 - EP KR US); **H04W 52/383** (2013.01 - EP KR US); **H04W 56/002** (2013.01 - EP US); **H04W 72/04** (2013.01 - EP US); **H04W 72/0446** (2013.01 - KR); **H04W 72/121** (2013.01 - KR); **H04W 72/542** (2023.01 - KR); **H04W 84/20** (2013.01 - KR); **H04W 88/08** (2013.01 - KR US); **H04W 72/542** (2023.01 - EP US); **H04W 76/00** (2013.01 - US)

Citation (examination)  
• US 2007104123 A1 20070510 - TOMICI JOHN L [US], et al  
• EP 2340681 A1 20110706 - NOKIA CORP [FI]

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010049801 A1 20100506**; CN 102246575 A 20111116; EP 2342932 A1 20110713; EP 2342932 A4 20160601; EP 2342932 B1 20230412; KR 101296021 B1 20130812; KR 20110089311 A 20110805; US 2012093098 A1 20120419; US 9420564 B2 20160816

DOCDB simple family (application)  
**IB 2009007270 W 20091029**; CN 200980149855 A 20091029; EP 09823151 A 20091029; KR 20117012092 A 20091029; US 200913126925 A 20091029